

Serial No.: 10/040,072  
Atty. Docket: BW-419-2

Title: Method and Device for Supplying a Flowable Medium to the Tobacco of a Smoking Product

### IN THE CLAIMS

Claims 1.-10. (canceled)

Claim 11. (currently amended) A device for supplying a flowable medium to the tobacco of a smoking product (2) comprising a means by which the said flowable medium is introduced on a drum (1) of the a filter assembler of a cigarette machine, after the a rod has been formed-- wherein said means further comprising:  
said drum (1) of said filter assembler of said cigarette machine to hold said smoking product (2) when introducing said flowable medium; and  
a hollow mandrel (16) with spiraled outer grooves, by which said flowable medium is introduced into said rod of said smoking product by inserting said hollow mandrel (16) into a front end and discharging said medium from said hollow mandrel (16) while withdrawing it from said rod, wherein said medium is supplied to said hollow mandrel (16) by a pump.

Claim 12. (canceled)

Claim 13. (currently amended) The device as set forth in claim ~~12~~ 11, further comprising an axial movement means (5, 6, 7, 8, 9), which moves the hollow mandrel (16) at a uniform speed with respect to the rod when introducing the medium, allowing the medium to be distributed over the rod, said axial movement means further comprising a sliding part (6) on which said hollow mandrel (16) may slide axially when being inserted into or extracted from said rod, wherein said axial movement means is generated via an inclined plate (9) on which a running bearing (7, 8) connected to said sliding part (6) runs off.

Claim 14. (canceled)

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Claim 15. (currently amended) The device as set forth in claim ~~12~~ 11 further comprising a carrier drum (5) rotating synchronously with the drum (1) as a holding device for the hollow mandrel (16).

Claim 16. (canceled)

Claim 17. (currently amended) The device as set forth in claim 13 further comprising a rotating means (11, 12, 13, 32) with which the hollow mandrel (16) is provided with ~~screw-like outer grooves, and is further provided with~~ auto-rotation in opposing directions when it said hollow mandrel (16) is inserted into the rod and extracted from it.

Claim 18. (currently amended) The device as set forth in claim 17 wherein the rotating means comprises a rotating bearing (32) for ~~the an~~ application body (10), to which the hollow mandrel (16) is fastened, as well as toothed wheels (11) on ~~the a~~ circumference which mesh with respective outer tooth meshings (12, 13) and inner tooth meshings (13) and effect the respective auto-rotation when the hollow mandrel (16) and the application body (10) is moved axially.

Claim 19. (currently amended) The device as set forth in claim 15 further comprising a supplying means (25, 26) which supplies the flowable medium to the hollow mandrel (16) and rod by means of ~~the~~ rotational centrifugal forces of the rotating carrier drum (5).

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Claim 20. (previously presented) The device as set forth in claim 19 wherein the supplying means comprises a conduit (26) centered on the rotational axis of the carrier drum (5), from which the respective application bodies (10) and hollow mandrels (16) are fed with the medium via radially arranged, rotating feed lines (25).

Claim 21. (canceled)

Claim 22. (currently amended) The device as set forth in claim 19 further comprising a valve means (15, 27-31), using by which the flow of the medium is regulated.

Claims 23.-25. (canceled)

Claim 26. (currently amended) A device for supplying a flowable medium to the tobacco column of a cigarette on a drum, comprising:

a hollow mandrel affixed to an application body, said hollow mandrel in fluid communication with a flowable medium, said hollow mandrel axially movable by a guide and sliding part, said hollow mandrel located on a carrier drum rotating synchronously with said drum;

a cam plate reciprocally driving said sliding part;

a rotating mechanism (11, 12, 13, 32) affixed to said hollow mandrel, said hollow mandrel provided with screw-like spiraled outer grooves;

a supplying conduit (25, 26) which supplies the flowable medium to said hollow mandrel (16) and said application body.

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Claim 27. (previously presented) The device of claim 26 wherein said conduit (26) is

centered on the rotational axis of said carrier drum (5) from which said application body (10) is fed with said medium through a radially arranged rotating feed line (25).

Claim 28. (previously presented) The device of claim 26 wherein said mandrel is provided with auto-rotation in opposing directions when inserted and extracted from said cigarette.

Claim 29. (previously presented) The device of claim 28 wherein said rotating mechanism has a rotating bearing for said application body to which said hollow mandrel is fastened, as well as toothed wheels on the circumference which mesh with respective tooth meshings and effect said respective auto-rotation when said hollow mandrel is moved axially.

Claim 30. (currently amended) A device for supplying a flowable medium to the tobacco column of a cigarette on a drum, comprising:

an auto-rotating hollow mandrel affixed to an application body, said hollow mandrel in fluid communication with a flowable medium, said hollow mandrel axially movable by a guide and sliding part, said hollow mandrel located on a carrier drum rotating synchronously with said drum;

a cam plate reciprocally driving said sliding part;

a rotating mechanism affixed to said hollow mandrel, said hollow mandrel provided

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with ~~screw-like~~ spiraled outer grooves;

a supplying conduit which supplies the flowable medium to said hollow mandrel and said application body.

Claim 31. (currently amended) The device of claim 30 wherein said auto-rotation of said auto-rotating hollow mandrel is in opposing directions when inserted and extracted from said cigarette.

Claim 32. (currently amended) A device for supplying a flowable medium to the tobacco column of a cigarette on a drum, comprising:

an auto-rotating hollow mandrel affixed to an application body, said hollow mandrel in fluid communication with a flowable medium, said hollow mandrel axially movable by a guide and sliding part, said hollow mandrel located on a carrier drum rotating synchronously with said drum;

a cam plate reciprocally driving said sliding part;

a rotating mechanism affixed to said hollow mandrel, said hollow mandrel provided with ~~screw-like~~ spiraled outer grooves;

a supplying conduit which supplies the flowable medium to said hollow mandrel and said application body;

wherein said rotating mechanism has a rotating bearing for said application body to

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which said hollow mandrel is fastened, as well as toothed wheels on the circumference  
which mesh with respective tooth meshings and effect said respective auto-rotation when  
said hollow mandrel is moved axially.

Claim 33. (currently amended) A device for supplying a flowable medium to the tobacco  
column of a cigarette on a drum, comprising:

a hollow mandrel affixed to an application body, said hollow mandrel in fluid  
communication with a flowable medium, said hollow mandrel axially movable by a guide  
and sliding part, said hollow mandrel located on a carrier drum rotating synchronously with  
said drum;

a cam plate reciprocally driving said sliding part;

a rotating mechanism affixed to said hollow mandrel, said hollow mandrel provided  
with ~~screw-like~~ spiraled outer grooves;

a supplying conduit which supplies the flowable medium to said hollow mandrel and  
said application body;

wherein said supplying conduit is centered on a rotational axis of said carrier drum  
from which said application body is fed with said medium through a radially arranged  
rotating feed line.